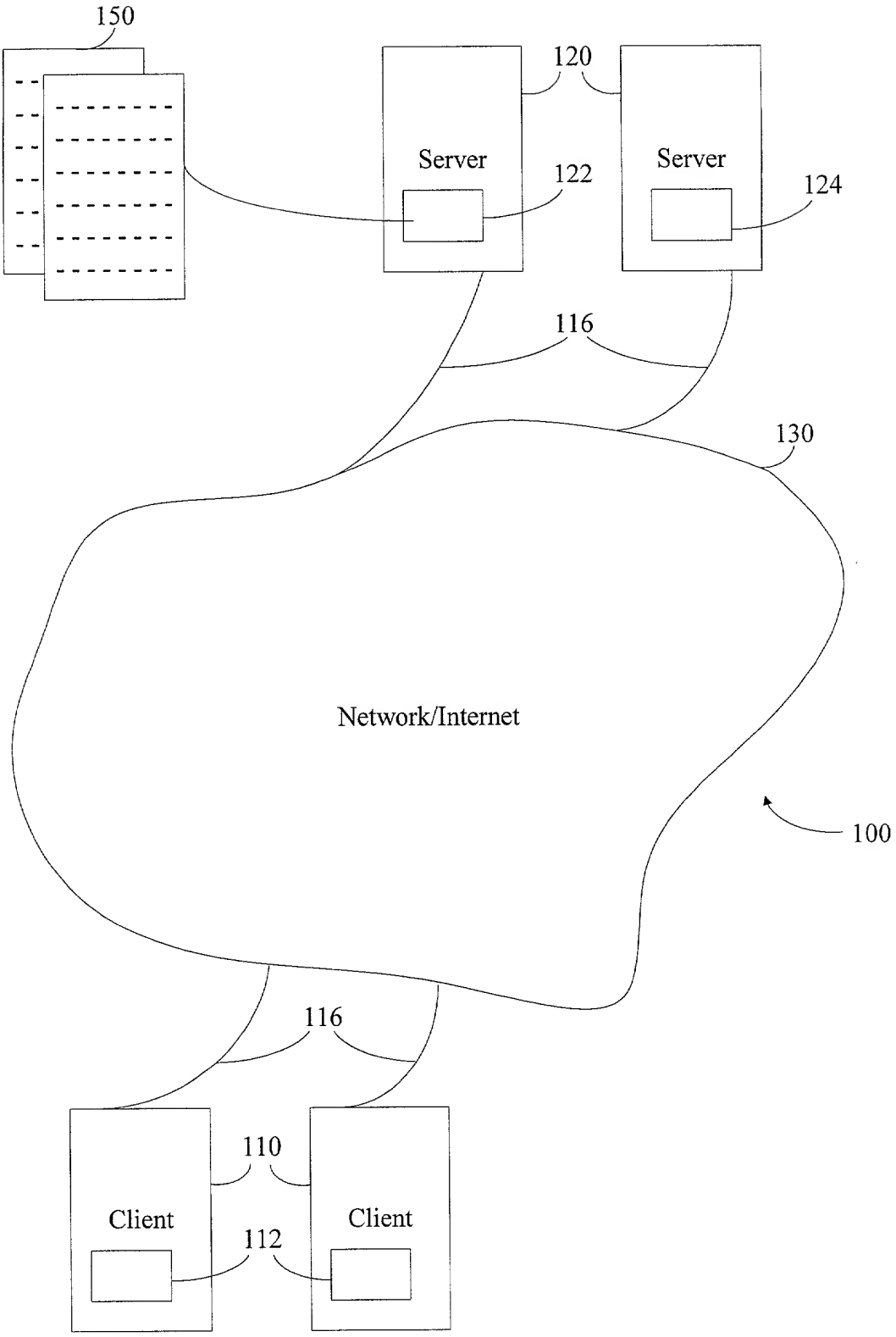

150
120
Server
122
Server
124
116
130
Network/Internet
100
116
110
Client
112
Client

*Fig. 1a*

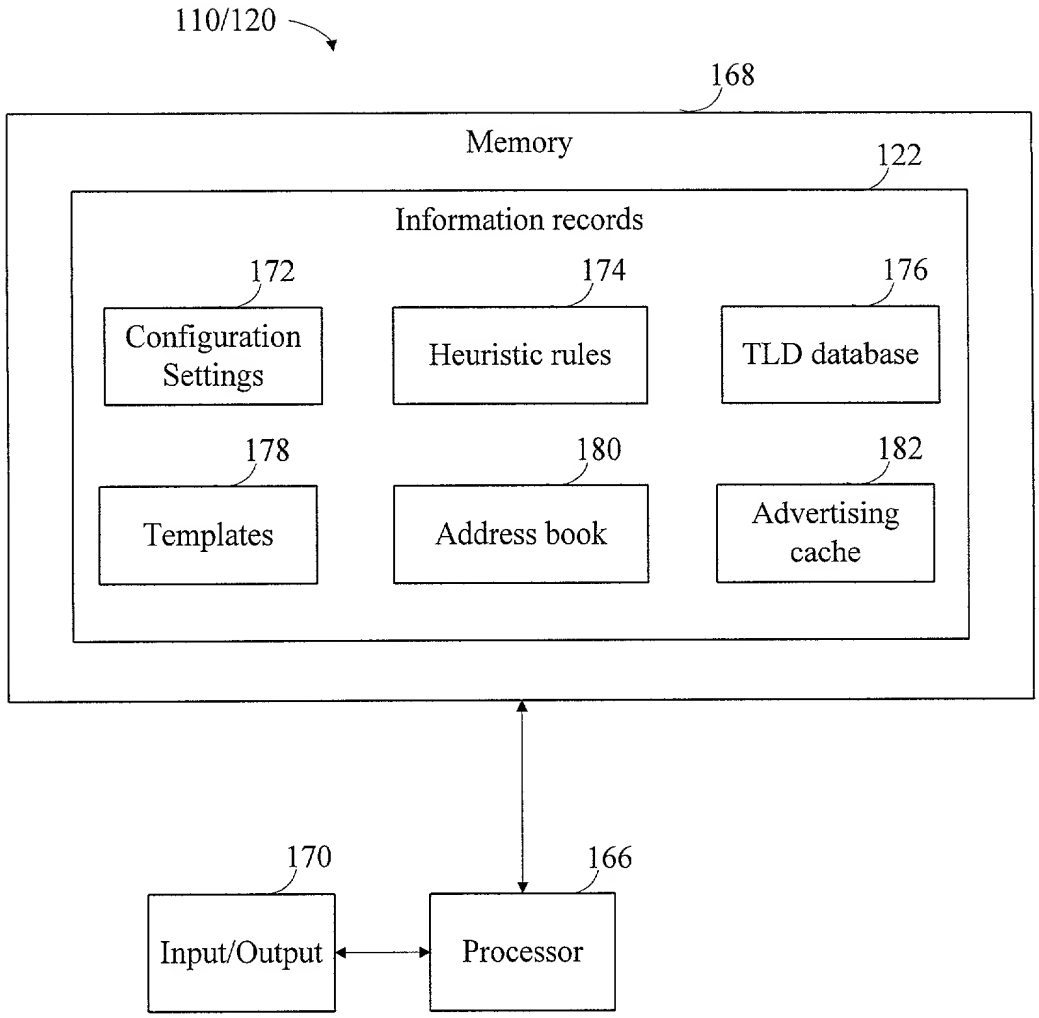

110/120
168
Memory
122
Information records
172
Configuration Settings
174
Heuristic rules
176
TLD database
178
Templates
180
Address book
182
Advertising cache
170
Input/Output
166
Processor

*Fig. 1b*

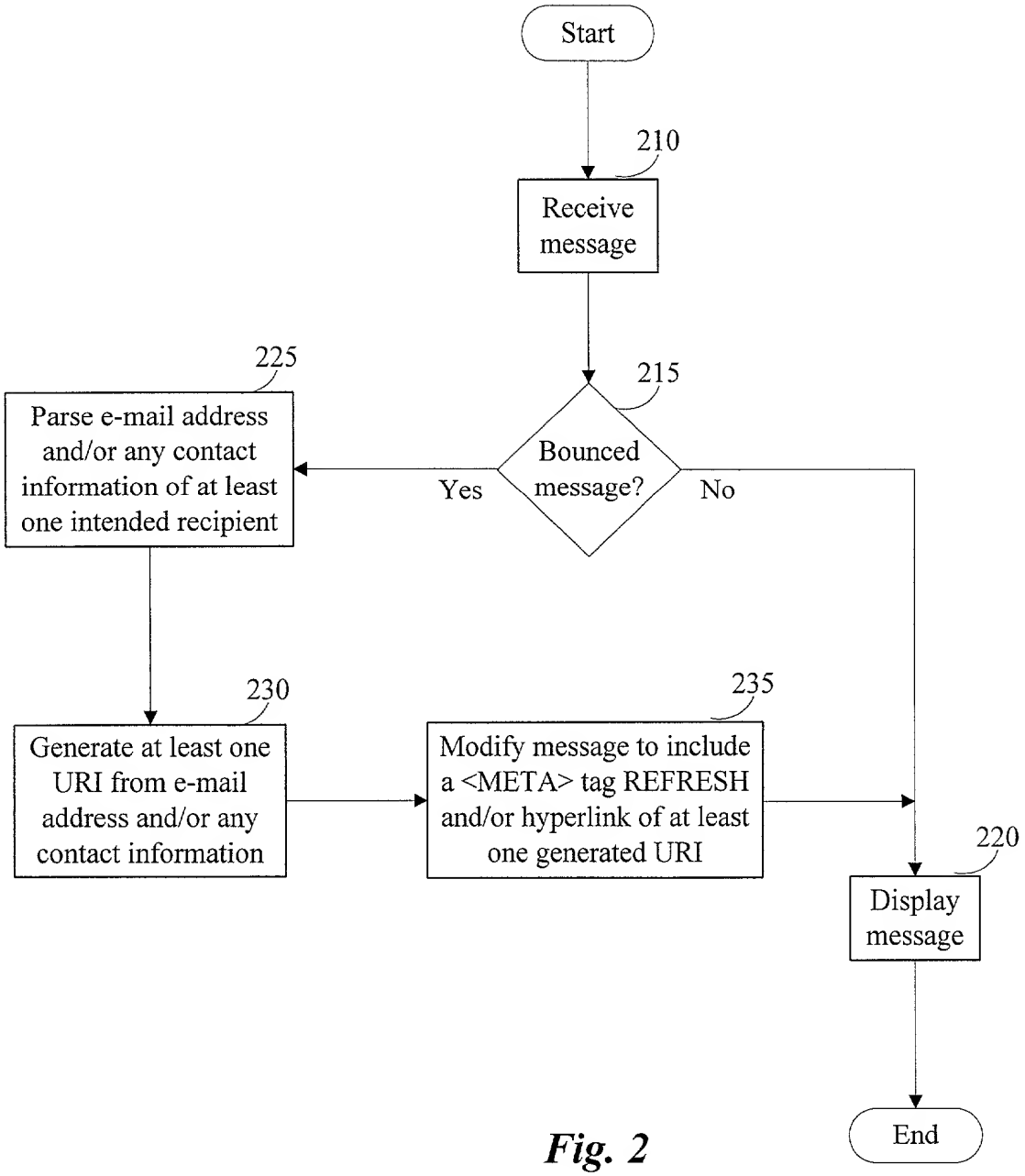

Start
210
Receive message
215
Bounced message?
Yes
No
225
Parse e-mail address and/or any contact information of at least one intended recipient
230
Generate at least one URI from e-mail address and/or any contact information
235
Modify message to include a <META> tag REFRESH and/or hyperlink of at least one generated URI
220
Display message
End

*Fig. 2*

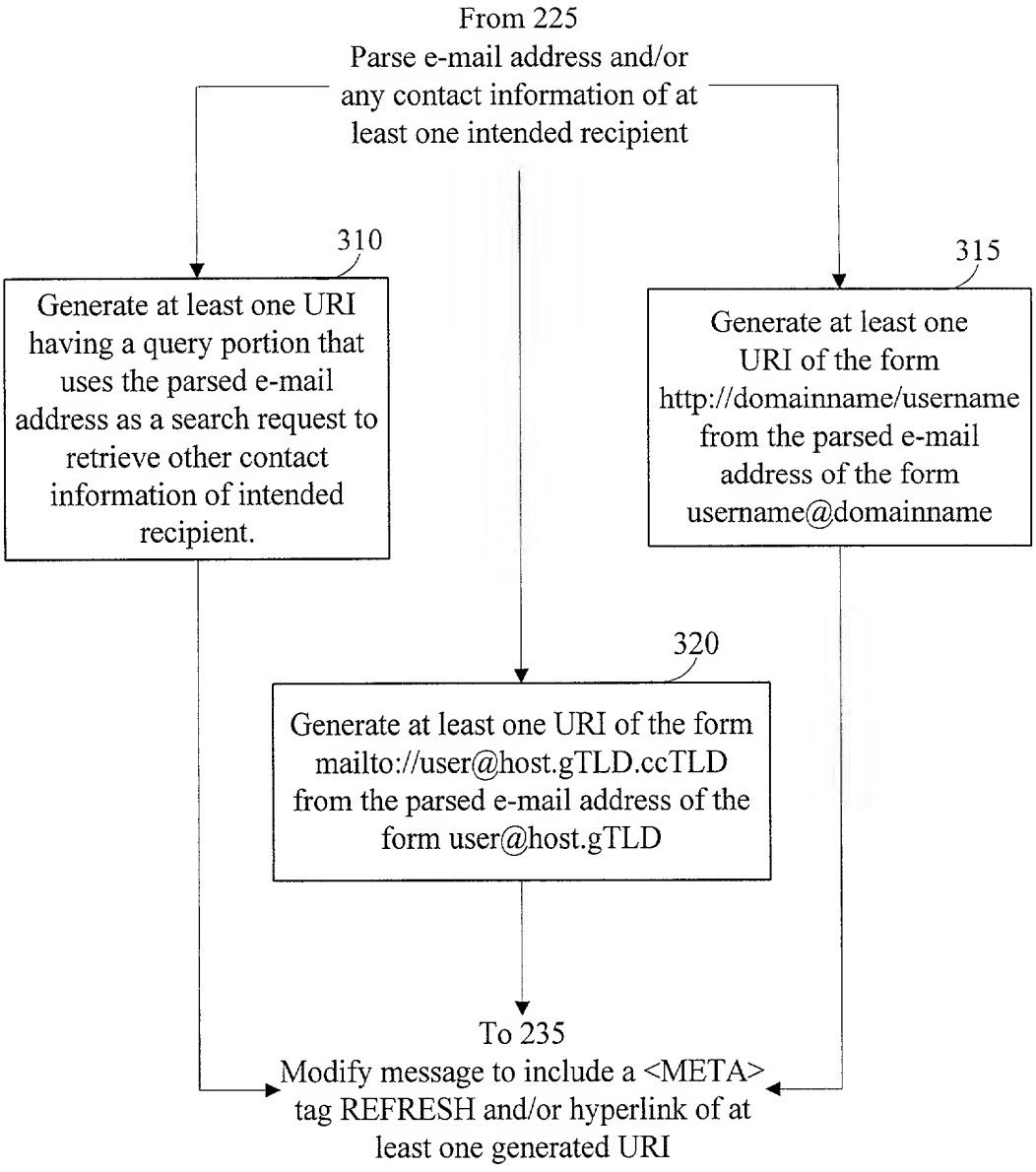

From 225
Parse e-mail address and/or any contact information of at least one intended recipient
310
Generate at least one URI having a query portion that uses the parsed e-mail address as a search request to retrieve other contact information of intended recipient.
315
Generate at least one URI of the form http://domainname/username from the parsed e-mail address of the form username@domainname
320
Generate at least one URI of the form mailto://user@host.gTLD.ccTLD from the parsed e-mail address of the form user@host.gTLD
To 235
Modify message to include a <META> tag REFRESH and/or hyperlink of at least one generated URI

*Fig. 3a*

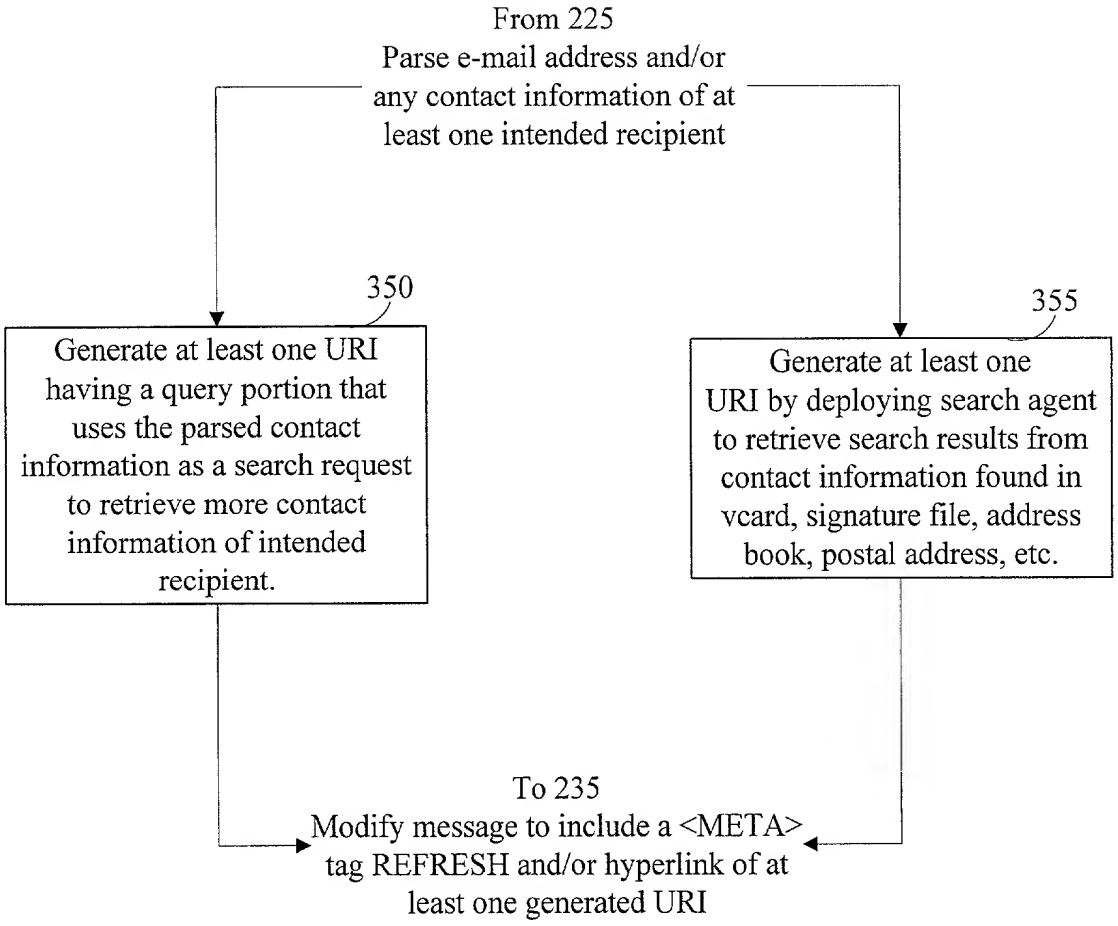

From 225
Parse e-mail address and/or any contact information of at least one intended recipient
350
Generate at least one URI having a query portion that uses the parsed contact information as a search request to retrieve more contact information of intended recipient.
355
Generate at least one URI by deploying search agent to retrieve search results from contact information found in vcard, signature file, address book, postal address, etc.
To 235
Modify message to include a <META> tag REFRESH and/or hyperlink of at least one generated URI

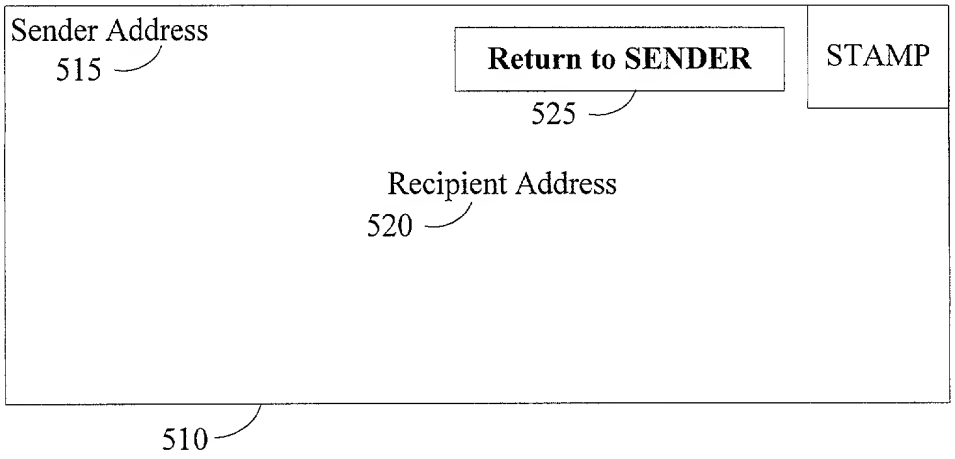
*Fig. 3b*

```
Return-Path: <MAILER-DAEMON>
Received: from localhost (localhost)
        by mail.sender.com (8.9.3/8.9.3) with internal id DAA08119;
        Sat, 28 Aug 1999 03:22:53 -0400 (EDT)
Date: Sat, 28 Aug 1999 03:22:53 -0400 (EDT)
From: Mail Delivery Subsystem <MAILER-DAEMON>
Message-Id: <199908280722.DAA08119@mail.sender.com>
To: <original@sender.com>
MIME-Version: 1.0
Content-Type: multipart/report; report-type=delivery-status;
        boundary="DAA08119.935824973/mail.sender.com"
Subject: Returned mail: User unknown
Auto-Submitted: auto-generated (failure)
X-UIDL: 0a7b64d78dbd21cd6bb513b718fc263a

This is a MIME-encapsulated message

--DAA08119.935824973/mail.sender.com

The original message was received at Sat, 28 Aug 1999 03:19:11 -0400 (EDT)
from p16-clv2-ts2.sender.com [129.180.218.73]

   ----- The following addresses had permanent fatal errors -----
<john@doe.com>

   ----- Transcript of session follows -----
550 <john@doe.com>... Host unknown (Name server: doe.com: host not found)

--DAA08119.935824973/mail.sender.com
Content-Type: message/delivery-status

Reporting-MTA: dns; mail.sender.com
Received-From-MTA: DNS; d49.as2.mail.sender.com
Arrival-Date: Sat, 28 Aug 1999 03:19:11 -0400 (EDT)

Final-Recipient: RFC822; john@doe.com
Action: failed
Status: 5.1.2
Remote-MTA: DNS; doe.com
Last-Attempt-Date: Sat, 28 Aug 1999 03:19:12 -0400 (EDT)
```

***Prior Art***
***Fig. 4a***

Return-Path: <MAILER-DAEMON>
Received: from localhost (localhost)
by mail.sender.com (8.9.3/8.9.3) with internal id DAA08119;
Sat, 28 Aug 1999 03:22:53 -0400 (EDT)
Date: Sat, 28 Aug 1999 03:22:53 -0400 (EDT)
From: Mail Delivery Subsystem <MAILER-DAEMON>
Message-Id: <199908280722.DAA08119@mail.sender.com>
To: <original@sender.com>
MIME-Version: 1.0
Content-Type: multipart/**html**; report-type=delivery-status;
boundary="DAA08119.935824973/mail.sender.com"
Subject: Returned mail: User unknown
Auto-Submitted: auto-generated (failure)
X-UIDL: 0a7b64d78dbd21cd6bb513b718fc263a
This is a MIME-encapsulated message
--DAA08119.935824973/mail.sender.com
The original message was received at Sat, 28 Aug 1999 03:19:11 -0400 (EDT)
from p16-clv2-ts2.sender.com [129.180.218.73]
----- The following addresses had permanent fatal errors -----
<john@doe.com>
----- Transcript of session follows -----
550 <john@doe.com>... Host unknown (Name server: doe.com: host not found)
<HTML><HEAD><TITLE>Find John Doe</TITLE>
**<META HTTP-EQUIV="Refresh" CONTENT="5; URL=http://search.com/cgi-bin/whitepages/find.cgi?email=john@doe.com"></HEAD>**
<BODY BGCOLOR="#ffffff" BACKGROUND="/example.jpg">
<TABLE BORDER WIDTH="100%" BGCOLOR="#ffff99">
<TR ALIGN=CENTER><TD>
<FONT SIZE=+2><CENTER><B>
You will be transferred to a search for John Doe in 5 seconds.
</B></CENTER></FONT>
</TD></TR></TABLE><HR>
**<A HREF="http://search.com/cgi-bin/whitepages/find.cgi?email=john@doe.com">Find john@doe.com</A>**
</BODY></HTML>
--DAA08119.935824973/mail.sender.com
Content-Type: message/delivery-status
Reporting-MTA: dns; mail.sender.com
Received-From-MTA: DNS; d49.as2.mail.sender.com
Arrival-Date: Sat, 28 Aug 1999 03:19:11 -0400 (EDT)
Final-Recipient: RFC822; john@doe.com
Action: failed
Status: 5.1.2
Remote-MTA: DNS; doe.com
Last-Attempt-Date: Sat, 28 Aug 1999 03:19:12 -0400 (EDT)

*Fig. 4b*




*Prior Art*

*Fig. 5a*

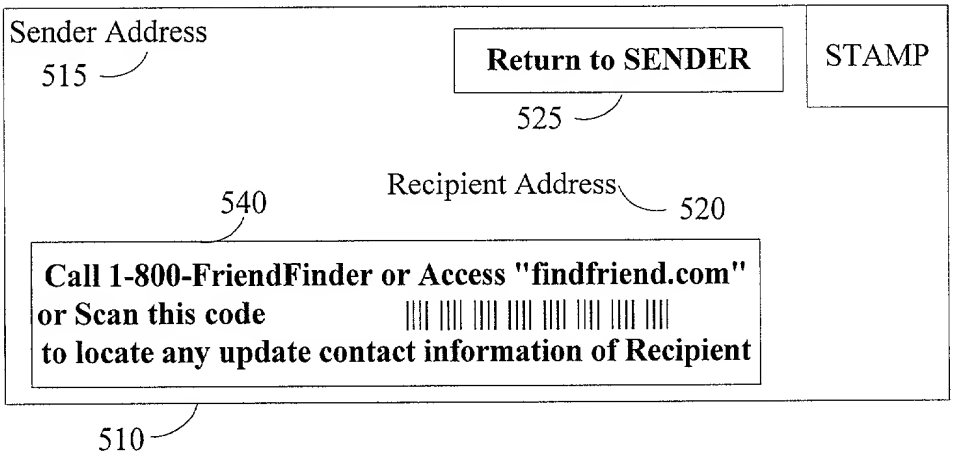



*Fig. 5b*